

**TABLE 5.3.13.1–2.—List of Hazardous Chemicals for Use at Site 300  
Under the Proposed Action**

Chemical	Chemical Abstract Number	No Action Average Maximum/Average Quantity	Proposed Action Maximum/Average Quantity
<b>Paints/Solvents</b>			
Paint (variety)	NA	7,200/1,230 lb	7,200/1,300 lb
Thinner, lacquer	NA	310/125 gal	310/105 gal
Methyl alcohol	67-56-1	90/5 gal	90/5 gal
Acetone	67-64-1	400/35 gal	400/30 gal
<b>Metals (No changes are expected)</b>			
Lead bricks or ingots	NA	25,000 lb	25,000 lbs
<b>Acids/Bases/Oxidizers</b>			
Oxygen, compressed	7782-44-7	16,000/5,150 ft <sup>3</sup>	16,000/5,500 ft <sup>3</sup>
Sulfuric acid	7664-93-9	845/62 lb	845/70 lb
Cyanuric acid	108-80-5	500/52 lb	500/55 lb
<b>Industrial Gases</b>			
Argon, compressed	7440-37-1	30,000/30,000 ft <sup>3</sup>	30,000/33,000 ft <sup>3</sup>
Helium	7440-59-7	25,000/25,800 ft <sup>3</sup>	25,000/27,500 ft <sup>3</sup>
Hydrogen, compressed	1333-74-0	700/720 ft <sup>3</sup>	700/770 ft <sup>3</sup>
Nitrogen, compressed (Liquified, gaseous)	7727-37-9	312,000/288,000 ft <sup>3</sup>	312,000/310,000 ft <sup>3</sup>
Carbon dioxide	124-38-9	44,000/5,200 ft <sup>3</sup>	44,000/5,500 ft <sup>3</sup>
<b>Refrigerants</b>			
Freon 113 (1,1,2-Trichloro-1,2,2-trifluoroethane)	76-13-1	150/10 gal	150/10 gal
Freon 22 (Chlorodifluoromethane)	75-45-6	1,400/910 lb	1,400/950 lb
Freon 12 (Dichlorodifluoromethane)	75-71-8	660/230 lb	660/240 lb
Freon 13 (Chlorotrifluoromethane)	75-72-9	478/478 ft <sup>3</sup>	478/478 ft <sup>3</sup> (No change)
Freon 14 (Tetrafluoromethane)	75-73-0	2,000/515 ft <sup>3</sup>	2,000/550 ft <sup>3</sup>

Source: LLNL 2002m, TtNUS 2003.

Note: Numbers are rounded. Additional chemicals are listed in Appendix B.

ft<sup>3</sup> = cubic feet; gal = gallons; lb = pounds; NA = not available.

Projections for specific hazardous chemicals for existing Livermore Site operations and Site 300 operations under the Proposed Action are presented in Tables 5.3.13.1–1 and 5.3.13.1–2, respectively. Additional detail is provided in Appendix B.

Increases in overall radioactive materials and explosive materials based on current administrative limits would be expected. Overall, no additional storage handling capacity, regulatory requirements, or security requirements would be needed. Under the Proposed Action, radioactive material and explosive material requirements used for analysis would not exceed existing material management capacities (TtNUS 2003). No new impacts are expected.

### ***New Operations***

LLNL anticipates hazardous material usage rates to increase over the next 10 years. The majority of the increase would be due to the full implementation of the NIF, BSL-3, and Integrated